**Software Requirement Specification**

**NAME OF SYSTEM : Bakery**

**DATE : 5/9/2024**

Version 1.2

**Logo :**

**Presented To: Dr.Mohamed Ramdan**

**Submitted By: Technical team**

Group names :2ABK

**TABLE OF CONTENTS**

**REVISION HISTORY**

| **Date** | **Author** | **Distributed to** | **Version** | **Description** |
| --- | --- | --- | --- | --- |
| 4/7/2024 | Doc Team | Relevant stakeholders | 1.0 | first version of  documentation  initializing  requirements |
| 5/1/2024 | Doc Team | Relevant stakeholders | 1.1 | updating use cases  checking completed requirement |
| 9/5/2024 | Doc Team | Relevant stakeholders | 1.2 | updating some  diagrams  and  checking completed  requirements |

**1 Introduction**

The project aims to develop a bakery website with a selling system for online orders.

**1.2 Scope**

### Actors

#### 1. Customer

* **Description**: Represents individuals who visit the bakery website to browse and purchase bakery products.
* **Needs/Goals**: Convenient browsing, easy checkout process, secure payment options, access to product information and reviews.
* **Actions**: Browsing products, adding items to cart, proceeding to checkout, making payments, leaving reviews and feedback.

#### 2.Administrator

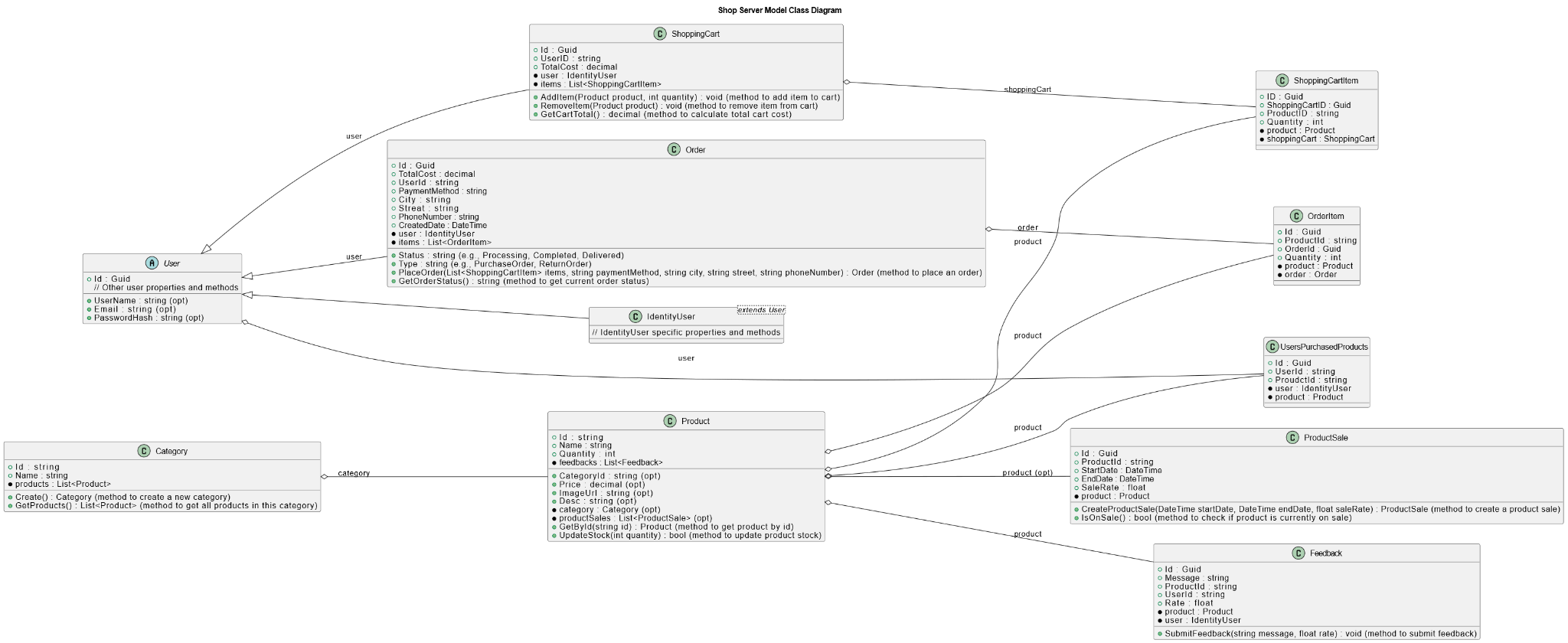
* **Description**: Represents individuals responsible for managing the bakery's online presence, including inventory, orders, and customer interactions.
* **Needs/Goals**: Efficient management of inventory, processing orders, monitoring sales, updating product information, managing customer inquiries.
* **Actions**: Adding/editing/deleting products, managing inventory levels, processing orders, responding to customer inquiries, analyzing sales data.

**2 Related Documents**

Requirements Traceability matrix reference :

| **Requirement ID** | **Description** | **Design Document** | **Implementation** |
| --- | --- | --- | --- |
| REQ-001 | The system shall allow users to create an account. | DD-001 | Implemented |
| REQ-002 | Users shall be able to browse bakery products. | DD-002 | Implemented |
| REQ-003 | The system must support online payments. | DD-003 | NOT Implemented |
| REQ-004 | Customers should receive email notifications for order confirmations. | DD-004 | Not Implemented |
| REQ-005 | Admins should be able to manage inventory. | DD-005 | Implemented |
| REQ-006 | The system should generate sales reports. | DD-006 | Not Implemented |

**Class Diagram:-**

****

**Requirements**

**Functional requirements:-**

**Customer:**

* browse through various bakery products.
* As a customer, I want to create an account to facilitate easier checkout for future orders.
* As a customer, I want to be able to add items to my shopping cart.
* As a customer, I want to view detailed information about each bakery product, including ingredients, price, and availability.
* As a customer, I want to be able to place an order and choose a convenient delivery or pickup option.

**Administrator:**

* As an administrator, I want to manage the bakery's product inventory, including adding new products, updating existing ones, and removing discontinued items.
* As an administrator, I want to manage user accounts, including creating new accounts, updating user information, and deactivating accounts if necessary.

**Non-Functional Requirements**

**Security**

**Description:** The bakery website must prioritize security measures to protect user data and ensure safe transactions.

* **Measurable Requirement:** The website must utilize SSL (Secure Sockets Layer) certification to encrypt data transmissions, providing a secure browsing experience for users.

**Performance**

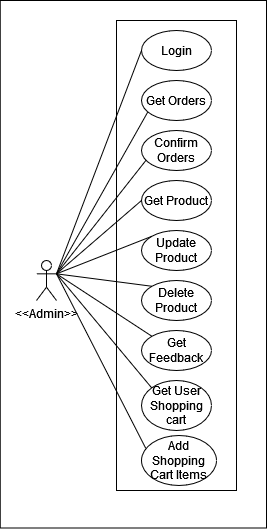
**Description:** The bakery website must deliver consistent performance to meet user expectations and maintain satisfaction.

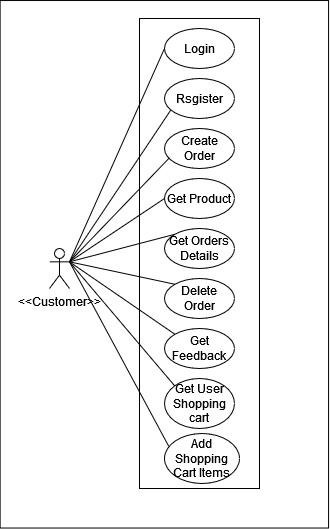
* **Measurable Requirement:**
  + **Uptime:** The website must maintain at least 99% uptime, ensuring minimal downtime for users to access services.
  + **Response Time:** The average page load time should not exceed [specified time], ensuring a responsive browsing experience for users across different devices and network conditions.

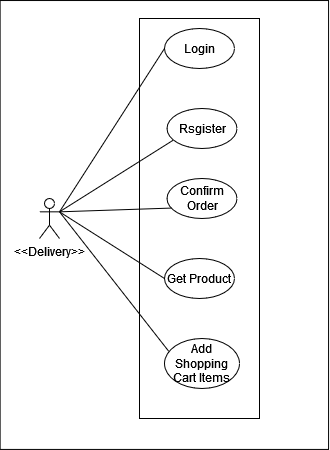
**Maintainability**

**Description:** The bakery website must be designed and developed in a way that facilitates easy maintenance and updates.

* **Measurable Requirement:**
  + **Regular Updates:** The website must undergo regular maintenance updates to address security vulnerabilities, optimize performance, and introduce new features or improvements.
  + **Documentation:** Comprehensive documentation outlining the website's architecture, codebase, and operational procedures must be maintained to aid future development and troubleshooting efforts.

**4.1Use Case diagram :-**



****

**4.2 Use Cases**

| **Use Case** | **Actor(s)** | **Description** | **Triggering** | **Preconditions** | **Postconditions** | **Priority** |
| --- | --- | --- | --- | --- | --- | --- |
| Login | Admin, Customer, Delivery | Logging into the system. | User initiates the login process. | User has valid credentials. | User gains access to the system. | High |
| Register | Customer, Delivery | Registering a new account in the system. | User initiates the registration process. | None. | User account is created and can be used for login. | High |
| Create Order | Customer | Placing a new order. | User initiates the order creation process. | User is logged in. | New order is created and added to the system. | High |
| Get Order Details | Customer | Retrieving details of a specific order. | User requests details of a particular order. | Order exists in the system. | User views order details. | Medium |
| Get Orders | Admin | Retrieving a list of orders. | User requests a list of orders. | User is logged in. | User views a list of orders. | Medium |
| Delete Order | Customer | Removing a specific order from the system. | User requests to delete an order. | User is authorized to delete orders. | Order is removed from the system. | High |
| Confirm Order | Admin, Delivery | Confirming an order for processing. | Admin reviews and confirms an order. | Order is pending confirmation. | Order is marked as confirmed and moves forward in the processing pipeline. | High |
| Get Product | Admin, Customer, Delivery | Retrieving details of a specific product. | User requests details of a particular product. | Product exists in the system. | User views product details. | Medium |
| Update Product | Admin | Modifying details of a specific product. | Admin initiates the product update process. | Admin is authorized to update products. | Product details are updated in the system. | High |
| Delete Product | Admin | Removing a specific product from the system. | Admin requests to delete a product. | Admin is authorized to delete products. | Product is removed from the system. | High |
| Get Feedback | Admin, Customer | Retrieving feedback provided by users. | User requests to view feedback. | Feedback exists in the system. | User views feedback. | Medium |
| Get User Shopping Cart | Admin, Customer | Retrieving the contents of a user's shopping cart. | User requests to view their shopping cart. | User is logged in. | User views their shopping cart. | Medium |
| Add Shopping Cart Items | Admin, Customer, Delivery | Adding items to a user's shopping cart. | User selects items to add to their shopping cart. | User is logged in. | Items are added to the user's shopping cart. | High |